

Course of Study Data Science (Study Cohort w21)

Sample course plan B Bachelor Data Science (DSBS) Dual study program

Specialisation: Medicine		Form Hrs/wk	Semester 2	Form Hrs/wk	Semester 3	Form Hrs/wk	Semester 4	Form Hrs/wk	Semester 5	Form Hrs/wk	Semester 6	Form Hrs/wk
1	Discrete Algebraic Structures		Automata Theory and Formal Languages		Databases		Signals and Systems		Introduction to Information Security		Seminars Computer Science	
2		VL 2		VL 2		VL 3		VL 3		VL 2		SE 2
3		GÜ 2		GÜ 2		GÜ 1		GÜ 2		GÜ 2		SE 2
4												
5												
6												
7	Procedural Programming for Computer Engineers		Stochastics		Numerical Mathematics I		Foundations of Management		Data Mining		Ethics in Information Technology	
8		VL 1		VL 2		VL 2		VL 3		VL 2		VL 2
9		HÜ 1		GÜ 2		GÜ 2		GÜ 2		PBL 2		SE 2
10		PR 2										
11												
12												
13	Mathematics I (EN)		Programming Paradigms		Algorithms and Data Structures		Graph Theory and Optimization		Machine Learning II		Enhanced Fundamentals of Materials Science	
14		VL 2		VL 2		VL 4		VL 2		VL 2		VL 2
15		HÜ 1		HÜ 1		GÜ 1		GÜ 2		GÜ 2		VL 2
16		GÜ 1		PR 2								
17		VL 2										
18		HÜ 1										
19		GÜ 1										
20	MED II: Introduction to Biochemistry and Molecular Biology		Mathematics II (EN)		Statistics		Scientific Programming		Introduction to Communications and Random Processes			
21				VL 2		VL 3		VL 3		VL 3		
22				HÜ 1		GÜ 1		GÜ 2		HÜ 1		
23		VL 2		GÜ 1						GÜ 1		
24												
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Non-technical Courses for Bachelors (from catalogue) - 6LP												

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.

